

### ABSTRACT OF THE DISCLOSURE

This invention describes a control method for a hydraulic coupling system that includes pressurizing a fluid in an actuator coupled to a multi-disk clutch pack to engage the clutch pack, pumping the fluid through the clutch pack to cool the clutch pack, and controlling one or more valve actuators and one or more pump-motors with a controller. The control method may incorporate pulse width modulation of the actuators, such as the actuators for the pump-motor and valve.